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## FACSIMILE COVER SHEET

DATE: March 16, 2004OUR REF.: FMCO-183US

TIME: \_\_\_\_\_

YOUR REF.: \_\_\_\_\_

TO: Shakeel Ahmed

COMPANY: \_\_\_\_\_

FROM: Bruce MonroeFAX TELEPHONE: 703-305-3230

OFFICE TELEPHONE: \_\_\_\_\_

TITLE OF DOCUMENT: English Translation of ApplicationTotal Number of Pages: 49 (including this form)

COMMENTS

### CONFIDENTIAL AND PRIVILEGED ATTORNEY/CLIENT INFORMATION

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**CERTIFICATE OF MAILING**

I, Ruth Curran, certify that on this 13<sup>th</sup> day of August, 2001, I deposited with the United States Postal Service the attached documents related to a Patent Application Serial No. 09/830,617, Docket No. 60210-USA entitled

**CIRCULAR METHOD FOR PICKLING COPPER AND COPPER ALLOYS**

Which consists of the following:

1. Transmittal Letter (2 pages)
2. Copy of Page 2 of Transmittal Letter
3. Copy of Notification of Missing Requirements Under 35 U.S.C. 371 (2 pages)
4. English Translation of Application (30 pages)
5. Signed Declaration and Power of Attorney (4 pages)
6. Preliminary Amendment (8 pages)
7. Certificate of Mailing
8. Return Receipt Postcard

(and any other paper referred to as being attached or enclosed); in an envelope with sufficient first-class postage, addressed to Commissioner for Patents, BOX PCT, Washington, D.C. 20231.

Please acknowledge receipt of the attached and enclosed documents by stamping and returning the enclosed postage-paid receipt-postcard.

  
\_\_\_\_\_  
Ruth Curran

PCT WORLD ORGANIZATION FOR INTELLECTUAL PROPERTY [seal]  
INTERNATIONAL OFFICE  
INTERNATIONAL APPLICATION PUBLISHED ACCORDING TO THE TREATY  
ON INTERNATIONAL COLLABORATION IN THE FIELD OF PATENTS (PCT)

- (51) International Patent Classification<sup>7</sup>: **A2 C 23 G 1/36** (11) International Publication No.: **WO 00/26,440**
- (43) International publication date:  
May 11, 2000 (5/11/00)
- (21) International reference: PCT/DE99/03474
- (22) International file date: November 2, 1999 (11/2/99)
- (30) Priority data: 198 50 530.2 November 3, 1998 (11/3/98) DE
- (71) Applicant (*for all designated states except US*): EILENBURGER  
ELEKTROLYSE- UND UMWELTECHNIK GmbH [DE/DE]; Ziegelstrasse  
2, D-04838 Eilenburg (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (*only for US*): THIELE, Wolfgang [DE/DE],  
Hainbuchenweg 19, D-04838 Eilenburg (DE); WILDNER, Knut [DE/DE],  
Grosse Mauerstrasse 3, D-04838 Eilenburg (DE); MATSCHINER,  
Hermann [DE/DE]; Schleiermacherstrasse 8, D-06114 Halle (DE);  
PRIGGEMEYER, Stefan [DE/DE], Wilhelm-Wess-Strasse 37, D-49134  
Osnabrück (DE); HARNISCHMACHER, Werner [DE/DE], Haunhorstweg  
59, D-49078 Osnabrück (DE); RÖHRIG, Peter [DE/DE], Lohner Hof 23, D-  
49088 Osnabrück (DE).
- (74) Attorney: SCHINKE, Herbert; P.O. Box 11 11, D-06234 Leuna (DE).
- (81) Designated states: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA,  
CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,  
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TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO Patent (GH, GM,  
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian Patent (AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI Patent (BF, BJ,  
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

*Without International Search Report and to be published again after receipt of the Report.*

(54) Title: CIRCULAR METHOD FOR PICKLING COPPER AND COPPER ALLOYS

(57) Abstract

The invention relates to a circular method for pickling copper and copper alloys. So far it has not been possible to pickle copper and copper alloys of different compositions with one pickling solution having the same basic composition. According to the inventive method, a sulfuric ferric sulfate solution with or without peroxydisulfate is used to pickle copper or copper alloys. The spent pickling solution is regenerated in one or more regeneration electrolytic cells which are partitioned by ion exchange membranes or porous diaphragms. The dissolved copper is cathodically deposited and the ferric sulfate is anodically reoxidized, whereby optionally peroxydisulfate is formed. The regenerated pickling solution enriched with oxidizing agent is fed again to the pickling solution to adjust a predetermined redox potential. The method is suitable for the surface treatment of semi-finished copper and copper-alloy products and articles for removing oxide films and for activating the surface before a surface refinement by electropolishing is carried out.

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KG Kirghizistan	UA Ukraine	
KP Democratic Peoples'	UG Uganda	
Republic of Korea	US United States of	
KR Republic of Korea	America	

FORMPTO-1390(Modified)  
(REV 11-2000)

U.S. DEPARTMENT

OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY

DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

60210-USA

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR  
09/830,617

INTERNATIONAL APPLICATION NO.  
DE99/03474

INTERNATIONAL FILING DATE  
2 November 1999

PRIORITY DATE CLAIMED  
3 November 1998

## TITLE OF INVENTION

CIRCULAR METHOD FOR PICKLING COPPER AND COPPER ALLOYS

## APPLICANT(S) FOR DO/EO/US

Thiele et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
  2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
  3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
  4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
  5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
    - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
    - b. ☐ has been communicated by the International Bureau.
    - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
    - a. ☒ is attached hereto.
    - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
  7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
    - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
    - b. ☐ have been communicated by the International Bureau.
    - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
    - d. ☐ have not been made and will not be made.
  8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
  9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
  10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
  11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
  12. ☐ A copy of the International Search Report (PCT/ISA/210).
- Items 13 to 20 below concern document(s) or information included:
13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
  14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
  15. ☒ A **FIRST** preliminary amendment.
  16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
  17. ☐ A substitute specification.
  18. ☐ A change of power of attorney and/or address letter.
  19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
  20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
  21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
  22. ☐ Certificate of Mailing by Express Mail
  23. ☐ Other items or information:

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.492 (a) (1) - (5)) : <b>09/830,617</b>	INTERNATIONAL APPLICATION NO. : <b>DE99/03474</b>	ATTORNEY'S DOCKET NUMBER : <b>60210-USA</b>
--	--	--

24. The following fees are submitted: <b>BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5)) :</b>				<b>CALCULATIONS PTO USE ONLY</b>	
<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO .....				\$1000.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO .....				\$860.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....				\$710.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) .....				\$690.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....				\$100.00	
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>					
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30				\$0.00	
				\$130.00	
<b>CLAIMS</b>	<b>NUMBER FILED</b>	<b>NUMBER EXTRA</b>	<b>RATE</b>		
Total claims	35 - 20 = 1	15	x \$18.00	\$270.00	
Independent claims	1 - 3 =	0	x \$80.00	\$0.00	
Multiple Dependent Claims (check if applicable). <input checked="" type="checkbox"/>				\$270.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$670.00	
<input type="checkbox"/> Applicant claims small entity status. (See 37 CFR 1.27). The fees indicated above are reduced by 1/2.				\$0.00	
<b>SUBTOTAL =</b>				\$670.00	
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30				\$130.00	
<b>TOTAL NATIONAL FEE =</b>				\$800.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				\$0.00	
<b>TOTAL FEES ENCLOSED =</b>				\$800.00	
				Amount to be: refunded	\$
				charged	\$

- a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 06-1440 in the amount of \$800.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1440. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Patent Administrator  
FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6985  
Fax: (215) 299-6402

*Bruce M. Monroe*  
SIGNATURE

Bruce M. Monroe

NAME

33,602

REGISTRATION NUMBER

August 13, 2001

DATE



## UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT  
United States Patent and Trademark Office  
Washington, D.C. 20231  
www.uspto.gov

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/830617	THIELE W	60210
INTERNATIONAL APPLICATION NO.		
PCT/DE99/03474		
I.A. FILING DATE	PRIORITY DATE	
02 NOV 99	03 NOV 98	

PATENT ADMINISTRATOR  
FMC CORPORATION  
1735 MARKET STREET  
PHILADELPHIA, PA 19103

DATE MAILED:

11 JUN 2001

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

- The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as ☐ a Designated Office (37 CFR 1.494) ☒ an Elected Office (37 CFR 1.495):
 

<input checked="" type="checkbox"/> U.S. Basic National Fee.	<input type="checkbox"/> Indication of Small Entity Status.
<input checked="" type="checkbox"/> Copy of the international application.	<input type="checkbox"/> Translation of the international application into English.
<input checked="" type="checkbox"/> Oath or Declaration of inventors(s).	<input type="checkbox"/> Translation of Article 19 amendments into English.
<input type="checkbox"/> Copy of Article 19 amendments.	<input type="checkbox"/> Other:
<input type="checkbox"/> Priority Document.	
<input type="checkbox"/> The International Preliminary Examination Report in English and its Annexes, if any.	
<input type="checkbox"/> Translation of Annexes to the International Preliminary Examination Report into English.	
- ☒ Applicant has requested early processing under 35 U.S.C. 371(f) but has not filed the following indicated items and/or the indicated items in paragraph 3 below. The Basic National Fee and the copy of the international application must be filed prior to 20 or 30 months from the priority date to avoid abandonment.
 

<input type="checkbox"/> U.S. Basic National Fee.	<input type="checkbox"/> Copy of the international application.
---	---
- The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:
 

<input checked="" type="checkbox"/> a. Translation of the application into English. A processing fee will be required if submitted later than the appropriate 20 or 30 months from the priority date.
<input type="checkbox"/> The current translation is defective for the reasons indicated on the attached Notice of Defective Translation.
<input checked="" type="checkbox"/> b. Processing fee for providing the translation of the application and/or the Annexes later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(f)).
<input checked="" type="checkbox"/> c. Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), properly identifying the application (preferably by the International application number and international filing date). A surcharge will be required if submitted later than the appropriate 20 or 30 months from the priority date.
<input checked="" type="checkbox"/> The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) for the reasons indicated on the attached PCT/DO/EO/917.
<input checked="" type="checkbox"/> d. Surcharge for providing the oath or declaration later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(e)).
- Additional claim fees of \$\_\_\_\_\_ as a ☐ large entity ☐ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due (37 CFR 1.492(g)). See attached PTO-875.
- ☐ Applicant has not submitted the required sequence listing pursuant to 37 CFR 1.821-1.825. See attached PCT/DO/EO/920.

**ALL OF THE ITEMS SET FORTH IN 3(a)-3(d), 4 AND 5 ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 22 OR 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

- If box 3a or 3c is checked, a translation of the Annexes **MUST** be submitted no later than the time period set above or the Annexes will be cancelled. A processing fee will be required if submitted later than 20 or 30 months from the priority date.
- ☐ The Article 19 amendments are cancelled since a translation was not provided by the appropriate 20 (37 CFR 1.494(d)) or 30 (37 CFR 1.495(d)) months from the priority date.

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

**A copy of this notice *MUST* be returned with this response.**

Enclosed: ☒ PCT/DO/EO/917  
☐ PTO-875

☐ Notice of Defective Translation  
☐ PCT/DO/EO/920

Shakeel Ahmed

FORM PCT/DO/EO/905 (March 2001)

Telephone: 703-305-3659

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JUN 13 2001





## UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT  
United States Patent and Trademark Office  
Washington, D.C. 20231  
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U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/830617	THIELE	W 60210
INTERNATIONAL APPLICATION NO.		
PCT/DE99/03474		
I.A. FILING DATE	PRIORITY DATE	
02 NOV 99	03 NOV 98	

PATENT ADMINISTRATOR  
FMC CORPORATION  
1735 MARKET STREET  
PHILADELPHIA, PA 19103

DATE MAILED: 11 JUN 2001

## NOTIFICATION OF A DEFECTIVE OATH OR DECLARATION

This application fails to contain an oath or declaration acceptable under 35 U.S.C. 371(c)(4) for entry into the national stage in the United States of America. The period within which to correct the deficiency noted below and avoid abandonment is set in the accompanying Notification.

A new oath or declaration, properly identifying this application (preferably by the international application number and international filing date) is required. The oath or declaration does not comply with 37 CFR 1.497(a),(b) and (f) in that it:

1. ☒ is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
2. ☐ does not identify the application to which it is directed.
3. ☐ does not identify the inventor(s).
4. ☐ does not identify the citizenship of each inventor.
5. ☐ does not state that the person making the oath or declaration believes the named inventor or inventors to be the original and first inventor or inventors of the subject matter which is claimed and for which a patent is sought.

FAILURE TO SUBMIT AN OATH OR DECLARATION IN COMPLIANCE WITH 37 CFR 1.497(a) AND (b), AND 1.497(d) WHERE APPROPRIATE, WITHIN THE TIME PERIOD SET WILL RESULT IN FAILURE TO ENTER THE NATIONAL STAGE AND THE ABANDONMENT OF THE APPLICATION.

Additionally, the oath or declaration does not comply with 37 CFR 1.63 in that it:

1. ☐ does not identify the mailing address of each inventor. If the residence is different from the mailing address, then the city and state or city and foreign country of residence of each inventor must also be given.
2. ☐ does not state that the person making the oath or declaration:
  - a. ☐ has reviewed and understands the contents of the application, including the claims, as amended by any amendment specifically referred to in the oath or declaration.
  - b. ☐ acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.
3. ☐ does not identify the foreign application for patent or inventor's certificate for which a claim for priority is made pursuant to 37 CFR 1.55, and any foreign application having a filing date before that of the application on which priority is claimed, by specifying the application serial number, country, day, month, and year of its filing.

Shakeel Ahmed

Telephone: 703-305-3659

FORM PCT/DO/EO/917 (March 2001)

09/830617

03-17-2004 03:22PM FROM-RatnerPrestia

6104070701

T-688 P.049/049 F-117

Date: AUG. 13, 2001  
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FILE NO. 60210-USA <sup>(FIMCO-18303)</sup> FEE DUE? (YES) NO AMT. ENC'D

NAME THIELE et al.

DOCUMENTS TRANSMITTAL LTR. (2pgs.), COPY PAGE 2  
OF TRANS. LTR., COPY OF NOTIFICATION (2pgs.), APP'N  
ENGLISH TRANSLATION (30pgs.), SIGNED DECISION (4pgs.),  
PRELIMINARY AMENDMENT (8pgs.), CERT. OF MAILING,  
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09/830,617

Bmm

Date: AUG. 13, 2001

Asst. Commissioner of Patents and Trademarks:

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FILE NO. 60210-USA <sup>(FIMCO-18303)</sup> FEE DUE? (YES) NO AMT. ENC'D

NAME THIELE et al.

DOCUMENTS TRANSMITTAL LTR. (2pgs.), COPY PAGE 2  
OF TRANS. LTR., COPY OF NOTIFICATION (2pgs.), APP'N